Started on Friday, 31 January 2025, 10:20 AM

State Finished

Completed on Friday, 31 January 2025, 10:31 AM

Time taken 10 mins 2 secs

Grade 80.00 out of 100.00

```
Question 1
Correct
Mark 20.00 out of 20.00
```

Print All Paths With Minimum Jumps

```
    You are given a number N representing number of elements.
    You are given N space separated numbers (ELE : elements).
    Your task is to find & print

            "MINIMUM JUMPS" need from 0th step to (n-1)th step.
            all configurations of "MINIMUM JUMPS".

    NOTE: Checkout sample question/solution video inorder to have more insight.
```

For example:

Test	Input	Result								
minJumps(arr)	10	0	->	3	->	5	->	6	->	9
	3	0	->	3	->	5	->	7	->	9
	3									
	0									
	2									
	1									
	2									
	4									
	2									
	0									
	0									

Answer: (penalty regime: 0 %)

Reset answer

```
1
    from queue import Queue
 2
    import sys
 3
    class Pair(object):
 4
        idx = 0
        psf = ""
 5
        jmps = 0
 6
        def __init__(self, idx, psf, jmps):
 7
 8
            self.idx = idx
 9
10
            self.psf = psf
            self.jmps = jmps
11
12 🔻
    def minJumps(arr):
13
        MAX_VALUE = sys.maxsize
14
        dp = [MAX_VALUE for i in range(len(arr))]
15
        n = len(dp)
        dp[n - 1] = 0
16
17
18
        for i in range(n - 2, -1, -1):
19
            steps = arr[i]
20
            minimum = MAX_VALUE
21
22 ▼
            for j in range(1, steps + 1, 1):
```

	Test	Input	Expected	Got	
~	minJumps(arr)	10 3 3 0 2 1 2 4 2 0		0 -> 3 -> 5 -> 6 -> 9 0 -> 3 -> 5 -> 7 -> 9	*
*	minJumps(arr)	7 5 5 0 3 2 3 6	0 -> 1 -> 6 0 -> 3 -> 6 0 -> 4 -> 6 0 -> 5 -> 6	0 -> 1 -> 6 0 -> 3 -> 6 0 -> 4 -> 6 0 -> 5 -> 6	*

Passed all tests! 🗸

Marks for this submission: 20.00/20.00.

```
Question 2
Correct
Mark 20.00 out of 20.00
```

Write a python program to find the maximum contiguous subarray on the given float array using kadane's algorithm.

For example:

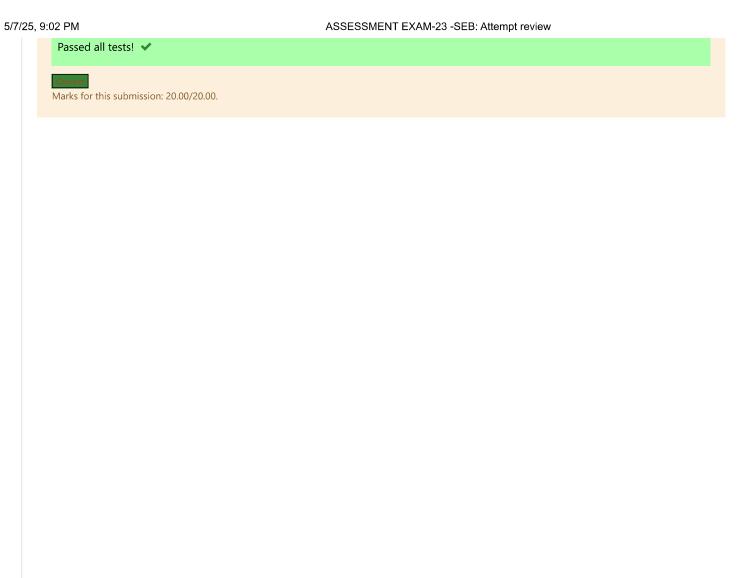
Test	Input	Result
s.maxSubArray(A)	5	The sum of contiguous sublist with the largest sum is 23.8
	-9.6	
	-3.5	
	6.3	
	8.31	
	9.2	

Answer: (penalty regime: 0 %)

```
Reset answer
```

```
1 v class Solution:
 2 🔻
        def maxSubArray(self,A):
 3
            res=0
 4
            mm= -10000
 5
            for v in A:
 6
                res+=v
 7
                mm=max(mm,res)
 8
                if res<0:</pre>
 9
                    res=0
10
            return mm
11
12
   A = []
   n=int(input())
13
14 v for i in range(n):
        A.append(float(input()))
15
16
    s=Solution()
   print("The sum of contiguous sublist with the largest sum is {:.1f}".format(s.maxSubArray(A)))
17
```

	Test	Input	Expected	Got	
~	s.maxSubArray(A)	5 -9.6 -3.5 6.3 8.31 9.2	The sum of contiguous sublist with the largest sum is 23.8	The sum of contiguous sublist with the largest sum is 23.8	~
~	s.maxSubArray(A)	7 2.3 6.5 4.6 -7.8 -2.8 -1.6 9.8	The sum of contiguous sublist with the largest sum is 13.4	The sum of contiguous sublist with the largest sum is 13.4	~



```
Question 3
Correct
Mark 20.00 out of 20.00
```

Create a Dynamic Programming python Implementation of Coin Change Problem.

For example:

Test	Input	Result
count(arr, m, n)	3	4
	4	
	1	
	2	
	3	

Answer: (penalty regime: 0 %)

```
Reset answer
```

```
1 def count(S, m, n):
 2
        table = [[0 \text{ for } x \text{ in range(m)}] \text{ for } x \text{ in range(n+1)}]
 3 -
        for i in range(m):
 4
            table[0][i] = 1
 5
        for i in range(1, n+1):
            for j in range(m):
 6
 7
 8
                 # Count of solutions including S[j]
 9
                 x = table[i - S[j]][j] if i-S[j] >= 0 else 0
10
                 # Count of solutions excluding S[j]
11
12
                 y = table[i][j-1] if j >= 1 else 0
13
14
                 # total count
15
                 table[i][j] = x + y
16
17
        return table[n][m-1]
18
19
    arr = []
   m = int(input())
20
   n = int(input())
21
22 | for i in range(m):
```

	Test	Input	Expected	Got	
*	count(arr, m, n)	3 4 1 2 3	4	4	~
~	count(arr, m, n)	3 16 1 2 5	20	20	~

Passed all tests! 🗸

Correct

Marks for this submission: 20.00/20.00.

Question 4
Correct
Mark 20.00 out of 20.00

Write a Python Program for printing Minimum Cost Simple Path between two given nodes in a directed and weighted graph

For example:

Test				Result
<pre>minimumCostSimplePath(s,</pre>	t,	visited,	graph)	-3

Answer: (penalty regime: 0 %)

```
Reset answer
```

```
1
    import sys
 2
    V = 5
 3
    INF = sys.maxsize
 4
    def minimumCostSimplePath(u, destination,
 5
                              visited, graph):
        if (u == destination):
 6
 7
            return 0
 8
        visited[u] = 1
 9
        ans = INF
10
        for i in range(V):
11 \
            if (graph[u][i] != INF and not visited[i]):
                curr = minimumCostSimplePath(i, destination,
12
13
                                             visited, graph)
                if (curr < INF):</pre>
14
15
                    ans = min(ans, graph[u][i] + curr)
16
        visited[u] = 0
17
        return ans
       __name__=="__main__":
18
        graph = [[INF for j in range(V)]
19
20
                      for i in range(V)]
21
        visited = [0 for i in range(V)]
22
        graph[0][1] = -1
```

	Test	Expected	Got	
~	minimumCostSimplePath(s, t, visited, graph)	-3	-3	~
Passe	d all tests! 🗸			

rasseu all tests: •

Marks for this submission: 20.00/20.00.

Question **5**Not answered

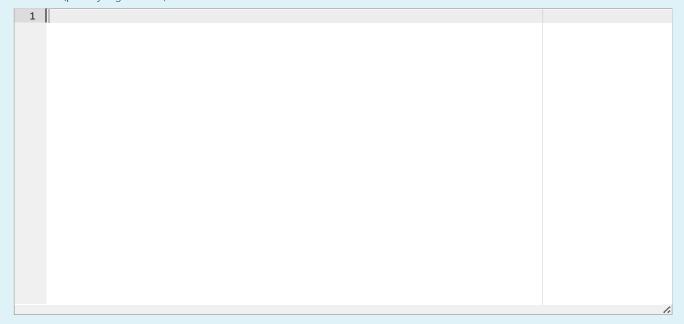
Mark 0.00 out of 20.00

Write a python program for the implementation of merge sort on the given list of values.

For example:

Input	Result
5	Given array is
12	12 10 61 2 3
10	Sorted array is
61	2 3 10 12 61
2	
3	
6	Given array is
20	20 10 31 49 87 6
10	Sorted array is
31	6 10 20 31 49 87
49	
87	
6	

Answer: (penalty regime: 0 %)



	Input	Expected	Got	
×	5	Given array is	***Run error***	×
	12	12 10 61 2 3	Traceback (most recent call last):	
	10	Sorted array is	File "testerpython3", line 2, in <module></module>	
	61	2 3 10 12 61	if(x==5):	
	2		NameError: name 'x' is not defined	
	3			
	×	\$\bigs\tag{5}{12}{10}{61}{2}	12 12 10 61 2 3 10 Sorted array is 61 2 3 10 12 61 2	Sorted array is 12 10 61 2 3 10 Sorted array is 61 2 3 10 12 61 2 NameError: name 'x' is not defined ***Run error*** Traceback (most recent call last): File "testerpython3", line 2, in <module> if(x==5): NameError: name 'x' is not defined</module>

Testing was aborted due to error.

Your code must pass all tests to earn any marks. Try again.

Show differences

Marks for this submission: 0.00/20.00.